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pct/US01/00662	30 January 2001 (30.01.2001)	US
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Declaration under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE

(57) Abstract: Presented are a myosin-like protein particularly expressed in human heart and muscle, isolated nucleic acids encoding the myosin-like protein, compounds and compositions derivable directly or indirectly therefrom, and diagnostic and therapeutic methods for using the same.

IN :RNATIONAL SEARCH REPORT

International Application No PCT/US 01/16981

			FC1/03 C	72/ 20502
A. CLASSIFICATION OF SUBJECT MATTER I PC 7 C12N15/12 C07K14 G01N33/53 A01K67 A61K48/00 A61K31 According to International Patent Classification (IPC)	.//0 6121115/11	COLKTAL	3 A61	N33/50 K38/17 K16/46
B. FIELDS SEARCHED			· · · · · · · · · · · · · · · · · · ·	
Minimum documentation searched (classification sys		nbols)		
IPC 7 C12N C07K G01N A	OIK C12Q A61K			
Documentation searched other than minimum docum	entation to the extent that such do	cuments are include	ed in the fields s	earched
Electronic data base consulted during the internation EMBL	al search (name of data base and	where practical, se	arch terms used	0)
EMOL				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category Citation of document, with indication, w	here appropriate, of the relevant p	assages		Relevant to claim No.
X DATABASE EMBL [On Entry HS125H2, Acc. 6 September 1997 (1 LLOYD, D.: "Human I	.no. Z98949, 1997-09-06) DNA sequence from	clone		1-36, 41-61
CTA-125H2 on chromo part of the gene for similar to KIAA0216 chain, ESTs, GSSs a XP002177437	or a novel protein 5 and myosin heavy			
see nt. 1-120630 -& DATABASE SWISSF Entry/Acc.no. 06077 1 August 1998 (1998 LLOYD D.: "BK125H2.	72, 3-08-01)			
SIMILAR TO KIAA0216 CHAIN) (FRAGMENT)" XP002191511				
the whole document -& DATABASE EMBL [Unlinel			
d british Elibe [-/		}	
X Further documents are listed in the continuation	n of box C.	Patent family mem	bers are listed in	annex.
Special categories of cited documents :	"T" lose	r dogument out the ba	4 - 6 16 - 1-1	
A* document defining the general state of the art white considered to be of particular relevance	ch is not cit	r document publishe priority date and not ed to understand the rention	in conflict with the	he application but
 E" earlier document but published on or after the inte- filing date L" document which may throw doubts on priority clain 	n(s) or in	ument of particular r nnot be considered i rolve an inventive sti	novel or cannot b	aimed invention be considered to ument is taken alone
which is cited to establish the publication date of a citation or other special reason (as specified) Of document referring to an oral disclosure, use, exh	another "Y" doc ca ibition or do	ument of particular r nnot be considered t cument is combined	elevance; the cla o involve an inve with one or more	aimed invention entive step when the e other such docu-
other means P* document published prior to the international filing later than the priority date claimed	date but in	ents, such combinati the art. ument member of th	on being obvious	s to a person skilled
Date of the actual completion of the international search	7	e of mailing of the in		
27 February 2002		0 5. 0	3. 2002	
lame and mailing address of the ISA European Patent Office, P.B. 5818 Pat	,	norized officer		
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 ept Fax: (+31-70) 340-3016		Smalt, R		

INTERNATIONAL SEARCH REPORT

Interr year Application No PCT/US 01/16981

		PCT/US 01/16981
C.(Continu: Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	Entry/Acc.no. AB042648, 16 May 2001 (2001-05-16) YOKOTA, J. ET AL.: "Homo sapiens bk125h2.1 mRNA, complete cds." XP002177438 the whole document	
(DATABASE EMBL [Online] Entry HS006124, Acc.no. R41006, 4 May 2000 (2000-05-04) WAYE M.M.Y. ET AL.: "Hk594-f Adult heart, Clontech Homo sapiens cDNA clone k594-f, mRNA" XP002191460 the whole document	2-5,10, 11,55,56
,,X	WO 00 58473 A (CURAGEN CORP ; LEACH MARTIN (US); SHIMKETS RICHARD A (US)) 5 October 2000 (2000-10-05) see seq.ID's 3195 and 3196 and paragraphs relating to ORF1598	2-5, 12-27, 31-36, 41-52, 55,56,61
,X	WO 00 77173 A (HUMAN GENOME SCIENCES INC ;ROSEN CRAIG A (US); RUBEN STEVEN M (US)) 21 December 2000 (2000-12-21) see seq.ID's 12, 53, 117, and gene #2	2-5, 12-27, 31-36, 41-52, 55,56,61
	WO 01 57276 A (CHEN WENSHENG; HANZEL DAVID K (US); PENN SHARRON G (US); RANK DAVI) 9 August 2001 (2001-08-09) see probe with seq.ID 12818 and seq.ID 25440	2-5,55,

INTERNATIONAL SEARCH REPORT

International application No. PCT/US 01/16981

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 41 and 42 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. X Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 37-40

Present claims 37-40, claim 41 in as far as it depends upon claim 37, and claim 42 in as far as it is dependent upon claim 40, relate to products defined by reference to a desirable characteristic or property, namely having (ant)agonistic activity towards the protein of claim 22. The application provides no support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for any such products. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search impossible. Consequently, the present search report does not cover claims 37-40, and claims 41 and 42 have only been searched to the extend that they depend on other claims than claim s 37 and 41, respectively.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

In cistional Application No
PCT/US 01/16981

Patent document	Publication	Patent family	Publication
cited in search report	date	member(s)	date
WO 0058473	A 05-10-2000	AU 3774500 / EP 1165784 / WO 0058473 /	A2 02-01-2002
W0 0077173	A 21-12-2000	AU 5022200 / AU 5174600 / WO 0070076 / WO 0077173 /	A 02-01-2001 A1 23-11-2000
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